

# Notice of Allowability

Application No.

10/763,731

Examiner

Ronald Baum

Applicant(s)

SZOR, PETER

Art Unit

2136

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/24/2007.
2. ☒ The allowed claim(s) is/are 1-22.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material  
NASSER MOAZZAMI  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

## DETAILED ACTION

### *Examiner's Statement of Reasons for Allowance*

1. Claims 1-22 are allowed over prior art.
2. This action is in reply to applicant's correspondence of 24 September 2007.
3. The following is an examiner's statement of reasons for the indication of allowable claimed subject matter.
4. As per claims 21 and 22 generally, prior art of record, Arnold et al, U.S. Patent No. 6,981,279 B1, fails to teach alone, or in combination, at the time of the invention, the features as discussed and remarked upon in the response of 24 September 2007 to office action of 25 June 2007.

Specifically, (as per claim 22, for example) prior art dealing with the ability to detect "zero-day" email malware via behavior-based anomaly detection techniques (i.e., using an instrumented virtual machine architecture to look for dangerous actions, such as registry modification, in all email content, via emulation/virtual mail reader/agent processing network elements; Sidiroglou, S., et al, 'An Email Worm Vaccine Architecture', 2005, Dept. of Computer Science, Columbia University, entire document, <http://www1.cs.columbia.edu/~angelos/Papers/2005/email-worm.pdf>), is generally known per se. Nowhere in the prior art is found collectively the *italicized* claim elements (i.e., using an associated SMTP proxy (connection 'destination') to compare an executable behavior of associated SMTP executable client applications, and more specifically to compare the effects of 'decrypted' application performance/memory effects (i.e., dirty page(s) results) insofar as the intercepted executing application (i.e., representing possible malware/malware attachment(s)) is

compared to the executable performance of a 'standard'), at the *time of the invention*, serving to patently distinguish the invention from said prior art;

- “22. A method comprising:
- establishing a SMTP proxy;
- defining an application*
- that forms a connection with*
- said SMTP proxy as*
- a SMTP client application;*
- decrypting*
- said SMTP client application;*
- intercepting an executable application*
- sent from*
- said SMTP client application*
- with*
- said SMTP proxy;*
- decrypting*
- said executable application; and*
- determining whether*
- said SMTP client application*
- when decrypted*
- is the same as*

*said executable application*

*when decrypted.”.*

5. Dependent claims 1-20 are allowable by virtue of their dependencies.

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*Conclusion*

6. Any inquiry concerning this communication or earlier communications from examiner should be directed to Ronald Baum, whose telephone number is (571) 272-3861, and whose unofficial Fax number is (571) 273-3861 and unofficial email is Ronald.baum@uspto.gov. The examiner can normally be reached Monday through Thursday from 8:00 AM to 5:30 PM.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser Moazzami, can be reached at (571) 272-4195. The Fax number for the organization where this application is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. For more information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ronald Baum

Patent Examiner

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11/28/07